

The dean of a business school claims that the average starting salary of its graduates is more than 85 (in \$000's). It is known that the population standard deviation is 10 (in \$000's). Sample data on the starting salaries of 64 randomly selected recent graduates yielded a mean of 88(in \$000s). What is the critical value for the rejection region if the level of significance is 5%?

Answer:

Critical value for the rejection region if the level of significance is 5% = 1.645

We conclude that the average starting salary of graduates is more than 85,000\$.

Step-by-step explanation:

We are given the following in the question:

Population mean, $\mu = 85,000$ \$

Sample mean, $\bar{x} = 88,000$ \$

Sample size, $n = 64$

Alpha, $\alpha = 0.05$

Population standard deviation, $\sigma = 10,000$

First, we design the null and the alternate hypothesis

$H_0: \mu = 85,000$ \text{ dollars} \\ $H_A: \mu > 85,000$ \text{ dollars}

We use One-tailed(right) z test to perform this hypothesis.

Formula:

Putting all the values, we have

Now,

Since,

$$z_{\text{critical}} < z_{\text{stat}} > z_{\text{critical}}$$

We reject the null hypothesis and accept the alternate hypothesis.

Thus, we conclude that the average starting salary of graduates is more than 85,000\$.

Find the volume of the cylinder. Diameter : 9

Radius : 4.5

Height : 15

A) 303.75 cm

B) 135 cm

C) 1215 cm

D) 67.5 cm

What was niels bohr's theory was based on?

What is $5 + -4 * (12/-6)$

What came first the chicken or the egg

How to round 4.999 to the nearest hundred

making use of Archimedes's Principle, displacements, and buoyancy, explain why some objects float on water, but others do not.

The amount of work done to produce a sound determines which property of sound waves? A. frequency

B. wavelength

C. pitch

D. amplitude

$\frac{2}{3}a = -24$ solve for A

Which could even the name of a point A) A

- B) m
- C) AB
- D) endpoint AB

Endpoint is when there's line above AB

A train leaves St. Louis traveling west at 60 miles per hour. An hour later, another train leaves St. Louis traveling east at 80 miles per hour. Solve the equation to find the number of hours when the two trains are the same distance from St. Louis. $60x + 60 = 80x$

Answer _____

- Damages intended to punish a defendant and deter the defendant from engaging in the same tortious conduct in the future are called:
- a. Penalty damages.
 - b. Retribution damages.
 - c. Punitive damages.
 - d. Preventative damages.
 - e. Nominal damages.

James and Lin got married and got new jobs. Lin earns \$3100 more per year than James. Together they earn \$81,980. How much does each of them earn per year?

Given the geometric sequence where $a_1 = 1$ and the common ratio is 6 what is the domain for n

In the seventeenth century, physicians did not do many autopsies. Why? A. The law required physicians pay a high fee for the bodies.

B. Physicians were afraid that they would catch whatever killed the person.

C. Defacing a dead body was against their religious beliefs and cultural norms.

D. Physicians were afraid that they would anger the gods.

I need help really bad please help meeeee I numbered the questions, please number the answers to them so I can have a easier time putting them in. Q. 1 What was the reform of Solon regarding workers?

All workers were to be freed.

All workers were to be paid.

No one could have slaves.

Q.2 If you didn't work, you were punished.

What type of government did Athens have?

dictatorship

democracy

socialism

monarchy

Q.3 Why was Philip of Macedonia able to easily conquer Greece?

The city-state was too poor.

There had been too many internal wars.

Macedonia was too strong and strategic.

Sparta had become weakened by disease.

Q.4 What was the primary objective of Alexander the Great?

provide equality to all of the city-states

conquer the world

spread culture throughout the world

educate and free the slaves

Q.5 What feature of Greek buildings is still found today in architecture?

walls

columns

arches

domes

Q.6 Who wrote a book on geometry?

Euclid

Eratosthenes

Archimedes

Pythagoras

Q.7 Select the statement that is false.

The Greeks computed the diameter of the earth to near exactness.

The Greeks knew of the daily rotation of the earth.

The Greeks believed the earth was flat.

The Greeks knew the earth revolved around the sun.

Q.8 Why is the Greek language considered to be important?

best for expressing mathematics

best for expressing thought

best for expressing science

best for expressing laws

Q.9 What was one reason for the decline of Greece?

population growth

wars

disease

rule of the few

Q.10 The form government Cleisthenes founded in Athens could be described as what type of government?

Dictatorship

Direct Democracy

Representative Democracy

If the equation line s is $y = x - 5$ and line f includes the point (5, 1) and is parallel to line s, what is the equation of line f? Select one:

A. $y = -x - 4$

B. $y = x + 4$

C. $y = 1/2x - 4$

D. $y = x - 4$

Which describes how the 14th Amendment affected the balance of power in the United States? A. Congress gained the power to impeach state legislators and governors. B. The federal government gained the power to protect individual rights in all states. C. The states gained the power to declare federal laws unconstitutional. D. The president gained the power to nullify state laws.

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